

ABSTRACT

The present invention provides vaccine compositions comprising an oil-in-water emulsion optionally with 3 De-O-acylated monophosphoryl lipid A and QS21. The vaccine compositions are potent induces of a range of immune responses.



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<p>(21) International Application Number: PCT/EP94/04246</p> <p>(22) International Filing Date: 20 December 1994 (20.12.94)</p> <p>(30) Priority Data: 9326253.3 23 December 1993 (23.12.93) GB</p> <p>(71) Applicant (<i>for all designated States except US</i>): SMITHKLINE BEECHAM BIOLOGICALS (S.A.) [BE/BE]; 89, rue de l'Institut, B-1330 Rixensart (BE).</p> <p>(72) Inventors; and</p> <p>(75) Inventors/Applicants (<i>for US only</i>): Momin, Patricia, Marie [BE/BE]; SmithKline Beecham Biologicals (S.A.), 89, rue de l'Institut, B-1330 Rixensart (BE). Garcon, Nathalie, Marie-Josephe [FR/BE]; SmithKline Beecham Biologicals (S.A.), 89, rue de l'Institut, B-1330 Rixensart (BE).</p> <p>(74) Agent: DALTON, Marcus, Jonathan, William; SmithKline Beecham, Corporate Intellectual Property, SB House, Great West Road, Brentford, Middlesex TW8 9BD (GB).</p>		<p>(81) Designated States: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ, VN, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG), ARIPO patent (KE, MW, SD, SZ).</p> <p>Published <i>With international search report.</i></p>	
<p>(54) Title: VACCINES</p> <p>(57) Abstract</p> <p>The present invention provides vaccine compositions comprising an oil-in-water emulsion optionally with 3 De-O-acylated monophosphoryl lipid A and QS21. The vaccines compositions are potent inducers of a range of immune responses.</p>			